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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/000,309

12/04/2001

Shinsuke Ito

111055

8902

25944

7590

01/15/2004

OLIFF & BERRIDGE, PLC
P.O. BOX 19928
ALEXANDRIA, VA 22320

EXAMINER

CRUZ, MAGDA

ART UNIT

PAPER NUMBER

2851

DATE MAILED: 01/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Applicati n No. 10/000,309	Applicant(s) ITO ET AL.	
	Examin r Magda Cruz	Art Unit 2851	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 October 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

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Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 04 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Hara et al.

Hara et al. (US Patent Number 6,398,366 B1) discloses a projector (1), comprising a light source device (6), luminous flux (L1) emitted from the light source device (6) being magnified and projected so as to form a projected image after being modulated (column 15, lines 31-35); an outer case (41) that accommodates the light source device (6), a cooling passage (47, 48, 49) that cools the outer case and the light source device (6) formed in a vicinity of the light source device in the outer case (41), the cooling passage (47, 48, 49) being formed by cooling air being blown out of a cooling duct arranged inside the outer case (column 12, lines 5-11), a cooling air inlet hole (47) of the cooling duct being capable of taking cooling air from the exterior (column 9, lines 45-50) of the outer case (41), and a discharge hole of the cooling duct having an opening formed to directly blow the cooling air on an internal side face of the outer case (column 9, lines 50-57); a restrictor (55) formed in an upstream side of the opening of the cooling duct (47). The cooling air inlet hole of the cooling duct (48) is

divided into two directions by a first passage (i.e. air flow inside the light source; Figure 6) and a second passage (i.e. outside the outer case that includes the light source; Figure 6), the first passage cooling an inside of a light source lamp of the light source device (column 12, lines 12-17), while the second passage being capable of cooling an outer peripheral portion of the light source lamp and the internal side face of the outer case (column 12, lines 17-22), including a centrifugal fan (32) which is connected to the cooling duct in the side of the cooling air inlet hole (column 8, lines 4-11). The centrifugal fan (32) is a sirocco fan disposed on an internal side face of the outer case (column 7, lines 20-23), and further including an exhaust fan (25) arranged on a side face perpendicular to the internal side face of the outer case that exhausts cooling air that has been received from the sirocco fan and the cooling duct and that has cooled the outer case (column 7, lines 17-20).

Response to Arguments

3. Applicant's arguments filed 10/06/2003 have been fully considered but they are not persuasive.
4. The applicant has argued that the prior art does not teach "a cooling passage that cools the outer case and the light source device formed in a vicinity of the light source device in the outer case". However, Hara et al. (US Patent Number 6,398,366 B1) teaches such cooling passage (47, 48, 49) that cools the outer case and the light source device (6) formed in a vicinity of the light source device in the outer case (41).

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Fujimori et al. (US Patent Number 6,364,492 B1) discloses a projector wherein the inside of the power source unit can be independently and efficiently cooled.

Fujimori et al. (US Patent Number 6,637,895 B2) teaches a projector having a suction opening arranged in the vicinity of an air inlet in the external case.

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

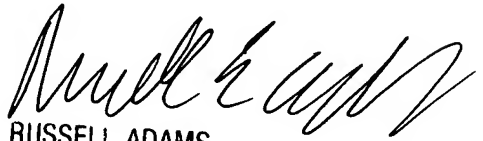
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Magda Cruz whose telephone number is (703)308-

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6367. The examiner can normally be reached on Monday through Thursday 8:00-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Russ Adams can be reached on (703)308-2847. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.


RUSSELL ADAMS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

Magda Cruz
Patent Examiner
January 9, 2004